MICRO-ORGANISM CULTURE COLLECTIONS: ACRONYMS AND ABBREVIATIONS

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Preface

This study and compilation was made as part of the investigations being conducted at the Northern Regional Research Laboratory, Agricultural Research Service, Peoria, Ill., on industrial utilization of cereal grains and oilseed crops. The ARS Culture Collection (with acronym NRRL) maintained here is one of the world's largest and most complete collections of agriculturally and industrially important bacteria, yeasts, molds, and actinomycetes. This collection serves as a source of authentic micro-organisms for the fermentative production of organic acids, vitamins, antibiotics, enzymes, feeds, beverages, and foods. Also, it serves as a repository for strains concerned with patent applications and as a source of micro-organisms of value in studies on the pollution control and health aspects of the Department's research in these areas.

I am indebted to Dr. W. C. Haynes, bacteriologist, ARS Culture Collection Research, NRRL, for supplying about 100 of the acronyms listed herein.

MICRO-ORGANISM CULTURE COLLECTIONS: ACRONYMS AND ABBREVIATIONS

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A most important aspect of the operation of a collection of micro-organisms involves recording histories of many strains, chronicling. In chronicling, the designation of strains of micro-organisms by an acronym and number has become necessary for an orderly arrangement of thousands of strains currently under study in many laboratories, and also it provides an accurate reference for future students who will collate the results of research conducted with these materials. Many of the strains now under study will be adequately preserved for some time. Accurate, original designation and identity of that designation with progeny, descendants, or subcultures of particular strains is critical.

Unfortunately, some of the early researchers either recognized no need for strain designations, or they believed it unnecessary. Some modern-day microbiologists still follow this pattern. It is difficult to comprehend many reports on micro-organisms because of omissions in strain designations, omissions of characterizations of the strains under study, and lack of adequate provisions for preserving strains.

Lack of provision for adequate preservation, of course, was no real fault of the early workers because some of the knowledge in this area had not yet been obtained, as lyophilization or liquid nitrogen preservation. Publications on *Streptomyces albus* (Rossi Doria), Waksman and Henrici, 1943, are adequate examples where neglect of assigning acronyms and strain numbers and inability to preserve strains has led to much confusion. There are numerous contributions on one or more functions of *S. albus* where no acronym, no strain number, or any kind of formal characterization is given and no strains were preserved. With the knowledge that the name appears to have been applied to at least two different kinds of streptomycetes (Pridham and Lyons[1], Lyons and Pridham[2]), the uncertainties are evident that arise in attempting to collate and to generalize about functions or characteristics of this species.

Hundreds of different collections of micro-organisms are known throughout the world, each with its own numbering system. Many of these collections

[1]PRIDHAM, T. G. AND LYONS, A. J. "STREPTOMYCES ALBUS" (ROSSI-DORIA) WAKSMAN ET HENRICI: TAXONOMIC STUDY OF STRAINS LABELED "STREPTOMYCES ALBUS". J. BACT. 81: 431-441. 1961.

[2]LYONS, A. J. AND PRIDHAM, T. G. PROPOSAL TO DESIGNATE STRAIN ATCC 3004 (IMRU 3004) AS THE NEOTYPE STRAIN OF "STREPTOMYCES ALBUS" (ROSSI-DORIA) WAKSMAN AND HENRICI. J. BACT. 83: 370-380. 1962.

maintain progeny of the same original strains obtained either from the person who first isolated the micro-organism or secondhand through culture collection exchange agreements and purchases. Thus, progeny of the same strain are available under many different designations.

To more precisely identify such progeny, the acronym (abbreviation, sigla) of the collection where they are maintained serves as a prefix for the number. For example, NRRL 2209 is the acronym and strain number of progeny of *Streptomyces aureofaciens* Duggar 1948, strain Lederle A-377 maintained in the ARS Culture Collection of the Northern Regional Research Laboratory. The acronym, NRRL, now is known among culture collection specialists to refer to the ARS Culture Collection. The strain number 2209 indicates that this strain was the 2,209th accessioned into the permanent mold collection.

Although streptomycetes are known to be bacteria, at the time of accessioning, that issue was cloudy, and the decision was made to include U.S. patent deposition strains of streptomycetes in the permanent mold collection. This strain was the first patent deposition strain accessioned in the ARS Culture Collection in connection with a U.S. patent application.

Only an accurate and complete chronicle can reveal the original identity of many strains each of which carries many different designations, the extent depending only upon the number of different collections which have acquired progeny of the micro-organism. For example, the original strain designation of *Stm. aureofaciens* was Lederle A-377. Thus, Lederle A-377 and NRRL 2209 are designations for progeny of the same strain.

As another example, *Streptoverticillium abikoense* (Umezawa et al.) Locci et al. 1969 is a proposed species whose type strain was originally numbered Z-1-6 at the National Institute of Health of Japan (NIHJ). Therefore, the original strain designation was NIHJ Z-1-6. Progeny of this strain now carry the following different acronyms and numbers, among others: ATCC 12766 (American Type Culture Collection), IMRU 3654 (Institute of Microbiology, Rutgers University), NRRL B-2133 (Northern Regional Research Laboratory). Theoretically, cultures designated by these acronyms and numbers all should exhibit the same characteristics, provided they have been maintained properly. Also considered are variations encountered among the various and sundry criteria used for characterization and description.

As indicated before, there now are many culture collections located throughout the world, some quite reliable, others less so. Martin and Skerman[3] indicated that some 800 collections had been solicited for information to prepare their "World Directory of Collections of Microorganisms". Unfortunately, they neglected to include the acronyms for the collections they listed. Information may be obtained on acronyms by perusing many different culture collection catalogues; but none provides a complete list. Accordingly, it is the purpose of this bulletin to provide the most complete listing to date.

The list should be of value to culture collection personnel and researchers desiring precise information on strains they are studying or the location of collections where particular strains may be obtained. It was not possible to obtain complete addresses for some collections. Nevertheless, enough information is given to allow pursuit of any leads that may be indicated.

[3]MARTIN, S. M. AND SKERMAN, V. D. B., EDS. WORLD DIRECTORY OF COLLECTIONS OF CULTURES OF MICROORGANISMS. 560 PP. NEW YORK. 1972.

Because the Russians use either English or Cyrillic letters in either English or Russian language publications, acronyms for the Russian collections are given in both languages. Where possible, the titles of non-U.S. organizations have been translated into English. Thus, the acronyms originally based on the organization titles in the native languages may not seem to be based on the initial letter of each important component of the title.

Some collections have been abandoned for various reasons, yet their acronyms remain in the scientific literature. These also are included in the list. Some collections listed in the World Directory apparently have no known acronyms. In coining an acronym, directors of such collections are advised to study this list carefully to avoid duplication which could lead to confusion. A number of the acronyms listed herein are not included in the publication of Crowley and Thomas[4], a comprehensive listing of many acronyms and initialisms covering many fields.

Acronym or Abbreviation	Meaning
ABBOTT	Abbott Laboratories, North Chicago, Ill. 60064 U.S.A.
ABJ	Association of Brewers of Japan, Tokyo, Japan.
ACC	Akers Research Laboratories of Imperial Chemical Industries, Ltd., Welwyn, Herts, England. (Formerly BRL or ARL.)
ACM	Archive of Microbial Strains, National University of Tecuman, S.M. Tecuman, Argentina, S.A.
ACR	Department of Bacteriology, University of Wisconsin, Madison, Wis. 53706 U.S.A.
ACRIC	Agricultural College of Research Institute, Coimbatore, India.
ACST	Advisory Committee on the Application of Science and Technology to Development (ECOSOC).
ACTU	Department of Agricultural Chemistry, Faculty of Agriculture, University of Tokyo, I-I-I Yayoi, Bunkyo-ku, Tokyo, Japan. *See* FAT and ATU.
AECU	Agricultural Experiment Station, New York College of Agriculture, Cornell University, New York, N.Y. 10001 U.S.A.
AHTS	Abeno Higher Technical School, Osaka, Japan.
AHU	Laboratory of Culture Collection of Microorganisms, Faculty of Agriculture, Hokkaido University, Nishi-9-chôme, Kita-9-jo, Sapporo City, Japan.
AID	Agency for International Development.
AIMS	*See* IAMS.
AIU	Faculty of Agriculture, Iwate University, Osaka, Japan.

[4]CROWLEY, E. T. AND THOMAS, R. C., EDS. ACRONYMS AND INITIALISMS DIRECTORY. ED. 4, 635 PP. GALE RESEARCH CO., DETROIT, MICH., U.S.A. 1973.

AJ	Central Research Laboratories, Ajinomoto Company, Inc., Kawasaki, Japan.
AKMI	Department of Technical Microbiology, August Kirchenstein Institute of Microbiology, Latvian Academy of Sciences, 55-Kleisti, Riga, Latvia.
AKU	Faculty of Agriculture, Kyoto University, Kyoto, Japan.
AMC	Walter Reed Army Medical Center, Washington, D.C. 20013 U.S.A. (Formerly Army Medical Department Research and Graduate school *or* Army Medical Corp).
AMD	Agricultural Microbiology Division, Ministry of Agriculture, University Street, Orman, Giza, United Arab Republic.
AMERICAN CYANAMID	American Cyanamid Company, New York, N.Y. 10001 U.S.A. *See also* "Lederle".
AMIF	American Meat Institute Foundation, Chicago, Ill. 60607 U.S.A.
AMNH	American Museum of Natural History, Central Park West and 79th Street, New York, N.Y. 10024 U.S.A.
AMP	Australian Mycological Panel. (Formerly Aust. *or* SN.)
AMS	Army Medical School, Japan.
ANU	Faculty of Agriculture, Niigata University, Japan.
AOU	Faculty of Agriculture, Okayama University, Okayama, Japan.
APQS	Yokohama Animal and Plant Quarantine Station, M.A.F., Japan.
ARCH	Antibiotics Research Center, Hindustan Antibiotics, Ltd., Pimpri, Poona District, India. *See* HACC.
ARI (АРИ)	Antibiotics Research Institute, Moscow, U.S.S.R. *Also* USSR ARI.
ARIN	Nippon Agricultural Research Institute, Tokyo, Japan. *Also* RAJ.
ARS	Agricultural Research Service, U.S. Department of Agriculture, Washington, D.C. 20250 U.S.A.
ARL	*See* ACC.
ASCA	Department of Agricultural Botany, Faculty of Agriculture, Ain Shams University, Shoubra El Khaima, United Arab Republic.
ATCC	American Type Culture Collection, 12301 Parklawn Drive Rockville, Md. 20852 U.S.A. Formerly located at 2112 M Street, N.W., Washington, D.C. U.S.A.
ATU	Faculty of Agriculture *or* Department of Agricultural Chemistry, Tokyo University, 1 Chome Mukogaoka, Yayoi-cho, Bunkyo-ku, Tokyo, Japan. *See* FAT and ACTU.

AY	Culture Collection, Ayerst Research Laboratories, 1025 Laurentian Blvd., Saint-Laurent, Quebec, Canada.
Baarn/Delft	*See* CBS.
Basel	W. Vischer Collection, Botanical Institute, University of Basel, Basel, Switzerland.
BATU	Department of Forestry, Institute of Botany, Faculty of Agriculture, University of Tokyo, Tokyo, Japan.
BBI	Biological Institute for Soil and Forestry, Kiel-Kitzeburg, Germany.
BBL	Baltimore Biological Laboratory, Division of Bioquest, Division of Becton, Dickinson and Co., Cockeysville, Md. 21030 U.S.A.
BCCM	British Commonwealth Collections of Microorganisms, London, England.
BCIRA	British Cotton, Silk, and Man-made Fibres Research Association, Manchester, England. (Formerly British Cotton Industries Research Association.)
BCMT	Brazilian Collection of Microbial Types, Laboratory of Parasitology, National Faculty of Medicine, University of Brazil, Rio de Janeiro, Brazil, S.A.
BDUN	Botany Department, University of Nottingham, Nottingham, England.
BEECHAM	Beecham Research Laboratories, Brockham Park, Betchworth, Surrey, England.
BFQM	Bacterioteca, Faculty of Chemistry, Montevideo, Uruguay, S.A.
BIB	Botanical Institute, Berne, Switzerland.
BIG	Botanical Institute, Ernst-Moritz-Arndt-University, Grimmerstrasze 88, Greifswald, East Germany. *Also* BIU and BIU BIG.
BIHM	Botanical Institute, Hanover Münden, Germany.
BIL	Botanical Institute, Karl Marx University, Talstrasse 33, 701, East Germany.
BIN (БИН)	V.L. Komarova Botanical Institute, Leningrad, U.S.S.R.
BIOVETA	An agency producing veterinary biologicals, Czechoslovakia.
BIRA	British Leather Research Association, Egham, Surrey, England.
BIU	*See* BIG.
BIU BIG	*See* BIG.
BKM (БКМ)	Department of Type Cultures, Institute of Microbiology, Academy of Sciences, Moscow, U.S.S.R. *or* All-Union Collection of Microorganisms, Moscow, U.S.S.R. *Also* BKMF.
BKMF (БКМФ)	*See* BKM.

BI	Culture Collection of Algae, Indiana University, Bloomington, Ind. 47401 U.S.A.
BLUS	Baljvaxtlaboratoriet Lantbruksholan, Uppsala, Sweden.
BNFS	B.N.F. Scheme, Poona-5, India.
BOOTS	Culture Collection, Antibiotics and Fermentation Division, Boots Pure Drug Company, Ltd., Daleside Road, Nottingham, England. *See also* BPD and CUB.
BPD	Research Department, Boots Pure Drug Company, Ltd., Oakfields Road West, Bridgford, Nottingham, England. *See* BOOTS and CUB.
BPI	Type Culture Collection, Burma Pharmaceutical Industry, Industrial Development Corporation, Ministry of Industry, BPI Road, Gyogon, Rangoon, Burma.
BPSP	Beneficencia Portugesa, San Pablo, Brazil, S.A.
BRISTOL	Bristol Laboratories, P.O. Box 657, Syracuse, N.Y. 13201 U.S.A.
BRL	*See* ACC. (Formerly Butterwick Research Laboratories, Imperial Chemical Industries, Ltd., Welwyn, Herts, England.)
BS (БС)	Botanical Institute, Academy of Sciences, Moscow, U.S.S.R.
BS	Institute of Microbiology, University of Brno, Brno, Czechoslovakia. *or* Institute of Microbiology, Masaryk University, Brno, Czechoslovakia. *or* Department of Microbiology, Faculty of Natural Sciences, J.E. Purkyně University, Brno, Czechoslovakia.
BSCH	Institute of Bacteriology of Chile, Santiago, Chile, S.A.
BSCU	Botany School, Cambridge University, Cambridge, England.
BSM	BSM Culture Collection, Botany Department, University of Allahabad, Allahabad, India.
BSOU	Department of Biology, Faculty of Science, Osaka University, Osaka, Japan.
BSRI	Brewing Science Research Institute, Tokyo, Japan. May also be same as GIB or RIB.
BU or BÚ	Biologický Ustav Ceskoslovenská Akademie Ved., Na cvičisti, Prague 6, Czechoslovakia. *Also* BÚČSAV or BÚČSAV (BU) or BÚ BÚCSAV.
BÚCSAV	*See* BU.
BÚCSAV (BU)	*See* BU.
BÚ BÚCSAV	*See* BU.

BYIC	Berkeley Yeasts Laboratory, Berkeley, Calif. 94701 U.S.A.
CAES	Chiba Prefecture Agricultural Experiment Station, Chiba, Japan.
Cambr.	Culture Collection of Algae and Protozoa, Botany School, University of Cambridge, Cambridge, England. *See* CU.
CANAD-201	Division of Bacteriology and Dairy Research Science Service, Department of Agriculture, Ottawa, Canada.
CANAD-212	Division of Bioscience, National Research Council, Ottawa, Canada.
CAPM	Collection of Animal Pathogenic Microorganisms, Research Institute of Veterinary Medicine, Brno-Medlánky, Czechoslovakia.
CASE	Case Laboratories, Chicago, Ill. 60601 U.S.A.
CB	Collection of Basidiomycetes, Institute of Microbiology, Czechoslovak Academy of Sciences, Prague-Krč, Budějovická, Czechoslovakia.
CBLB	Collection of Bacteriophages and Lysogenic Bacteria, Institute of Biophysics, Czechoslovak Academy of Sciences, Královopolská 135, Brno, Czechoslovakia.
CBRS	Coffee Board Research Station, Mysore, India.
CBS	Centraalbureau voor Schimmelcultures, Oosterstraat 1, Baarn, Netherlands. *Also* Baarn/Delft.
CBSC	Carolina Biological Supply Company, Elon College, N.C. 27244 U.S.A.
CC	CSIRO Division of Plant Industry, Canberra City, A.C.T., Australia.
CCEB	Culture Collection of Entomogenous Bacteria, Department of Insect Pathology, Institute of Entomology, Institute of Biology, Czechoslovak Academy of Sciences, Na cvičišti 2, Prague 6, Czechoslovakia.
CCF	Culture Collection of Fungi, Department of Botany, Faculty of Sciences, Charles University, Benátská 2, Prague 2, Czechoslovakia.
CCH	National Sanatorium, Chubu Central Hospital, Obu, Japan.
CCM	Czechoslovak Collection of Microorganisms, J.E. Purkyně University, třídd Obróneů Míru 10, Brno, Czechoslovakia. *or* Collection of Microbial Cultures, Faculty of Pharmacy and Biochemistry, Junín 954-IV piso, Buenos Aires, Argentina, S.A.
CCMDB	Culture Collection, Microbiology Department, Faculty of Science, J.E. Purkyně University, třídd Obróneu Míru 10, Brno, Czechoslovakia.

CCMTC	Center of Collection of Microbial Types of Czechoslovakia, Department of Parasitology, Charles IV University, Prague, Czechoslovakia.
CCPY	Laboratory for Mycological Research, Faculty of Medicine, Comenius University, Mickiewiczova 13, Bratislava, Czechoslovakia.
CCRUAR	Department of Soil Science, Agricultural College, Alexandria University, Chatby, Alexandria, United Arab Republic.
CCTCC	Committee of Chinese Type Culture Collections, Shanghai, China.
CCTM	Centre de Collections de Types Microbiens, 19 Avenue César-Roux, Lausanne, Switzerland.
CCUPB	Culture Collection, Utrecht Pays-Bas, Netherlands.
CCY	Institute of Chemistry of the Czechoslovak Academy of Sciences, Dúbravská cesta, Bratislava, Czechoslovakia. *Also* CHISAV.
CDA	Canadian Department of Agriculture, Ottawa, Ontario, Canada.
CDC	Center for Disease Control *or* Communicable Disease Center, United States Public Health Service, Atlanta, Ga. 30333 U.S.A. *Also* NCDC or CDC-RH. *See* RH.
CDC-RH	*See* CDC.
CEB	Centre d'Etudes du Bouchet, Le Bouchet, France.
CECT	Spanish Collection of Type Cultures, Department of Microbiology, Faculty of Science, Salamanca, Spain. *Also* CSIC.
CEFAV	Center of Enterobacteria, Agronomic and Veterinary Faculty, University of Buenos Aires, Buenos Aires, Argentina, S.A.
CEFC	Central Experimental Farm, Ottawa, Ontario, Canada.
CEMA	Experimental Farm of Mandioca, Azvedo, Brazil, S.A.
CFMR	Center for Forest Mycology Research, Forest Products Laboratory, P.O. Box 5130, North Walnut Street, Madison, Wis. 53705 U.S.A.
CHISAV	*See* CCY.
Christen	H.R. Christen Collection, Winterthur, Switzerland.
CI	Carnegie Institute, Cold Spring Harbor, Long Island, N.Y. 11101 U.S.A. *Also* CIW.
CIAM(L)	All-Union Scientific Research Institute of Agricultural Microbiology, Gerzen Stree, 42, Leningrad, U.S.S.R.
CIB	Centrul Experimental de Ingrŏzămînte Bacteriene, Bucharest, Roumania.

Center of Industrial Microbiological Investigations, National Institute of Industrial Technology, Buenos Aires, Argentina, S.A.

Council for International Organizations of Medical Sciences.

International Council for Scientific Organization.

Collection of Microorganisms of the Pasteur Institute, Paris, France.

Chiba Serum Institute, Chiba, Japan.

International Council of Scientific Unions.
See CI.

Technical Research and Development Center of Japan Defense Agency, Tokyo, Japan.

Carlsberg Laboratory, Copenhagen, Denmark.

Central Laboratory, South Manchuria Railway Company, Ltd., Darien, Manchuria. No longer in existence.

Central Vaud Dairy, Lausanne, Switzerland.

Collection of Agricultural Microorganisms, Institute of Agricultural Research, Ministry of Agriculture, Prague, Czechoslovakia.

Mycology Center, Faculty of Medical Science, Buenos Aires, Argentina, S.A.

Commonwealth Mycological Institute, Ferry Lane, Kew, Surrey, England. (Formerly Imperial Bureau of Mycology, Imperial Mycological Institute.) *See* IMI.

Collection of Industrial Microorganisms, Institute of Mycology, Prague, Czechoslovakia.

Colonial Microbiological Research Institute, Port-of-Spain, Trinidad, B.W.I. *See* Hankey.

Center of Soil Mycology, Torino, Italy.

Burroughs Welcome Research Laboratories, Beckenham, Kent, England.

Committee on Data for Science and Technology.

Research Institute for the Fermentation Industry, Enzymology and Technical Microbiology, Germany.

Collection of Agricultural, Marine and Industrial Microorganisms, Institute of Agricultural and Technical Microbiology, E. de Nicola, Sessari, Italy.

Commercial Solvents Corporation, Terre Haute, Ind. 47808 U.S.A.

Committee on Science and Technology in Developing Countries.

Commonwealth Bureau of Plant Breeding and Genetics, School of Agriculture, Cambridge, England. *See also* IPBD.

CCMTC	Center of Collection of Microbial Types of Czechoslovakia, Department of Parasitology, Charles IV University, Prague, Czechoslovakia.
CCPY	Laboratory for Mycological Research, Faculty of Medicine, Comenius University, Mickiewiczova 13, Bratislava, Czechoslovakia.
CCRUAR	Department of Soil Science, Agricultural College, Alexandria University, Chatby, Alexandria, United Arab Republic.
CCTCC	Committee of Chinese Type Culture Collections, Shanghai, China.
CCTM	Centre de Collections de Types Microbiens, 19 Avenue César-Roux, Lausanne, Switzerland.
CCUPB	Culture Collection, Utrecht Pays-Bas, Netherlands.
CCY	Institute of Chemistry of the Czechoslovak Academy of Sciences, Dúbravská cesta, Bratislava, Czechoslovakia. *Also* CHISAV.
CDA	Canadian Department of Agriculture, Ottawa, Ontario, Canada.
CDC	Center for Disease Control *or* Communicable Disease Center, United States Public Health Service, Atlanta, Ga. 30333 U.S.A. *Also* NCDC or CDC-RH. *See* RH.
CDC-RH	*See* CDC.
CEB	Centre d'Etudes du Bouchet, Le Bouchet, France.
CECT	Spanish Collection of Type Cultures, Department of Microbiology, Faculty of Science, Salamanca, Spain. *Also* CSIC.
CEFAV	Center of Enterobacteria, Agronomic and Veterinary Faculty, University of Buenos Aires, Buenos Aires, Argentina, S.A.
CEFC	Central Experimental Farm, Ottawa, Ontario, Canada.
CEMA	Experimental Farm of Mandioca, Azvedo, Brazil, S.A.
CFMR	Center for Forest Mycology Research, Forest Products Laboratory, P.O. Box 5130, North Walnut Street, Madison, Wis. 53705 U.S.A.
CHISAV	*See* CCY.
Christen	H.R. Christen Collection, Winterthur, Switzerland.
CI	Carnegie Institute, Cold Spring Harbor, Long Island, N.Y. 11101 U.S.A. *Also* CIW.
CIAM(L)	All-Union Scientific Research Institute of Agricultural Microbiology, Gerzen Stree, 42, Leningrad, U.S.S.R.
CIB	Centrul Experimental de Ingrŏzăminte Bacteriene, Bucharest, Roumania.

CIMI	Center of Industrial Microbiological Investigations, National Institute of Industrial Technology, Buenos Aires, Argentina, S.A.
CIOMS	Council for International Organizations of Medical Sciences.
CIOS	International Council for Scientific Organization.
CIP	Collection of Microorganisms of the Pasteur Institute, Paris, France.
CIS	Chiba Serum Institute, Chiba, Japan.
CIUS	International Council of Scientific Unions.
CIW	*See* CI.
CJDA	Technical Research and Development Center of Japan Defense Agency, Tokyo, Japan.
CL	Carlsberg Laboratory, Copenhagen, Denmark.
CLMR	Central Laboratory, South Manchuria Railway Company, Ltd., Darien, Manchuria. No longer in existence.
CLV	Central Vaud Dairy, Lausanne, Switzerland.
CMAIRA	Collection of Agricultural Microorganisms, Institute of Agricultural Research, Ministry of Agriculture, Prague, Czechoslovakia.
CMBA	Mycology Center, Faculty of Medical Science, Buenos Aires, Argentina, S.A.
CMI	Commonwealth Mycological Institute, Ferry Lane, Kew, Surrey, England. (Formerly Imperial Bureau of Mycology, Imperial Mycological Institute.) *See* IMI.
CMIIM	Collection of Industrial Microorganisms, Institute of Mycology, Prague, Czechoslovakia.
CMRI	Colonial Microbiological Research Institute, Port-of-Spain, Trinidad, B.W.I. *See* Hankey.
CMT	Center of Soil Mycology, Torino, Italy.
CN	Burroughs Welcome Research Laboratories, Beckenham, Kent, England.
CODATA	Committee on Data for Science and Technology.
COH	Research Institute for the Fermentation Industry, Enzymology and Technical Microbiology, Germany.
COMAMI	Collection of Agricultural, Marine and Industrial Microorganisms, Institute of Agricultural and Technical Microbiology, E. de Nicola, Sessari, Italy.
COMSOL	Commercial Solvents Corporation, Terre Haute, Ind. 47808 U.S.A.
COSTED	Committee on Science and Technology in Developing Countries.
CPBG	Commonwealth Bureau of Plant Breeding and Genetics, School of Agriculture, Cambridge, England. *See also* IPBD.

CPHL	Central Public Health Laboratory, London, England.
CPMIPH	Collection of Pathogenic Microorganisms, Institute of Public Hygiene, Prague, Czechoslovakia.
CRB	Former Corps Research Division, now included in Plant and Entomological Sciences, Agricultural Research Service, U.S. Department of Agriculture, Beltsville, Md. 20705 U.S.A.
CRIFI	Central Research Institute of Food Industry.
CRIPP	Department of Microbiology, Research Institute of Cereal and Technical Plants, Bulev. Ion-Ionescu dela Brod No. 8, Bucuresti-Boneosa, Roumania. (Now in Czechoslovakia; *See* next entry). *or* Central Research Institute of Plant Production, Prague-Ruzyně, Czechoslovakia.
CS	Centraalstelle, Netherlands.
CSC	*See* COMSOL.
CSIC	*See* CECT.
CSIR	Council for Scientific & Industrial Research, Pretoria, Union of South Africa. *or* Council of Scientific and Industrial Research, Poona, India.
CSIRO	Commonwealth Scientific and Industrial Research Organization, Division of Food Preservation and Transport, Homebush, N.S.W., Australia.
CSLPA	Commonwealth Serum Laboratory, Parkeville, Victoria, Australia.
CTF	Technical Center of Farmalobiology, Madrid, Spain.
CU	Culture Collection of Algae and Protozoa, Botany School, Cambridge University, Cambridge, England. *See also* Cambr. *or* Cornell University, Ithaca, N.Y. 14850 U.S.A.
CUB	Actinomycete Culture Collection, School of Applied Biology, University of Bradford, Bradford, Yorkshire, England. Also maintains some cultures previously maintained at Antibiotics and Fermentation Division, Boots Pure Drug Company, Ltd., Nottingham, England.
CVL	Central Veterinary Laboratory, Ministry of Agriculture, Fisheries and Food, Weybridge, England.
CYCC	Czechoslovakian Yeast Culture Collection.
CZAA	Czechoslovak Academy of Agricultural Sciences, Prague, Czechoslovakia.

DABIS	Former Bureau of Plant Industry, Soil and Agricultural Engineering, now part of Agricultural Research Service, U.S. Department of Agriculture, Beltsville, Md. 20705 U.S.A.
DACF	Department of Agriculture, Canada.
DAIMB	National Institute of Biology, Department of Agriculture, Argentina, S.A.
DAOM	Mycological Herbarium *or* Ottawa Mycology, Division of Botany and Plant Pathology, Department of Agriculture, Ottawa, Ontario, Canada.
DASA	Department of Agriculture and Stock, Brisbane, Australia.
DB	Division of Bacteriology and Dairy Research, Department of Agriculture, Ottawa, Ontario, Canada.
DBAU	Department of Bacteriology, The American University, Beirut, Lebanon.
DBCEFC	Department of Botany, Central Experimental Farm, Ottawa, Ontario, Canada.
DBCO	Department of Bacteriology, University of Oregon, Corvalis, Oreg. 97330 U.S.A.
DBFU	Department of Bacteriology, Faculty of Medicine, Fouad Ier, University Kasr-el-Aini, Le Caire, Le Caire, United Arab Republic.
DBLMC	Department of Botany, R.G. Lar Medical College, Calcutta, India.
DBPU	Department of Biological Sciences, Purdue University, Lafayette, Ind. 47902 U.S.A.
DBUN	Department of Bacteriology, University of Nebraska, Lincoln, Neb. 68501 U.S.A.
DBUNC	Department of Botany, University of North Carolina, Chapel Hill, N.C. 27514 U.S.A.
DBUP	Department of Biology, Medical Faculty, Palacky Universitý, Olomouc 5, Czechoslovakia.
DFP	Division of Forest Products, Melbourne, Australia.
DHI	Former Dairen Hygienic Institute.
DIA	Institute of Animal Industry, Brazil, S.A.
DIFCO	Difco Laboratories, Detroit, Mich. 48226 U.S.A.
DINR	Section of Natural Resistance, Division of Plant Immunology, Institute of Phytotechnology M.A.G., Argentina, S.A.
DIPC	Section of Cultivable Pathogenic Fungi, Division of Plant Immunology, Institute of Phytotechnology M.A.G., Argentina, S.A.
DMG	Department of Microbiology, University of Guelph, Guelph, Canada.
DMIA	Department of Microbiology, Institute of Agronomy, Héverle, Belgium.

DMUC Department of Microbiology, University of Concepción, Casillo 272, Concepción, Chile, S.A.

DMUR Department of Mycology, University of Recife, Recife, Brazil, S.A.

DPP Department of Plant Pathology, Institute of Experimental Botany, Czechoslovak Academy of Sciences, Na Karlovce 1, Prague 6, Czechoslovakia.

DRL(M) Kanpur Culture Collection, Defense Research Laboratory (Materials), P.B. 320, Kanpur, Uttar Pradesh, India.

DS An acronym of unkown derivation. *Also* Rhone-Poulenc. *See* RP.

DSIR Department of Scientific and Industrial Research, Auckland, New Zealand.

or

Department of Scientific and Industrial Research, England.

DSL Defence Standard Laboratories, Australia.

DUSM School of Medicine, Duke University, Durham, N.C. 27701 U.S.A.

EAN National Agronomic Station, Lisbon, Portugal.

EANSP National Agronomic Station, Savanac, Portugal.

EAP Piracicaba School of Agriculture, San Pablo, Brazil, S.A.

ECA Department of General Microbiology, College of Agriculture, University of Edinburgh, West Mains Rd., Edinburgh 9, Scotland.

ECOSOC Economic and Social Council of the United Nations.

EEAG Experiment Station of Arroz, Gravatai, Brazil, S.A.

EECC Central Experimental School, Castelar, Argentina, S.A.

EEO Experiment Station, Osorio, Brazil, S.A.

EEPT Experiment Station of Pomiculture, Toquari, Brazil, S.A.

EESSM Experiment Station of Silviculture, Santa María, Brazil, S.A.

EFA Station of Agricultural Phytopathology, La Coruma, Spain.

EIAM (ЭИАМ) The Estonian Research Institute for Agriculture and Soil Improvement, Tallinn, Est.S.S.R.

Eli Lilly Eli Lilly and Company, Indianapolis, Ind. 46206 U.S.A. *See also* Lilly.

EMRS East Malling Research Station, Kent, England.

ENAP National School of Agriculture, La Molina, Apartado 456, Lima, Péru, S.A.

ENCB Herbarium of the National Polytechnic Institute, Mexico, D.F.

NIIZM (ЭНИИЗМ)	Estonian Scientific Research Institute of Agriculture and Soil Improvement. g. Saku, Khar'yuskiĭ r-n, Est.S.S.R.
NSCU	National School of Health, University City, Madrid, Spain.
RDC	Engineering Research and Development Center, U.S. Army, Fort Belvoir, Va. 22060 U.S.A.
SA	Vicosa Higher School of Agronomy, Minas Gerais, Brazil, S.A.
SAH	National Institute of Animal Health, Tokyo, Japan.
SAP	Luiz de Queiroz Higher School of Agriculture, Piracicaba, San Pablo, Brazil, S.A.
st.Agr.Nac.	National Agronomic Station, Sacavém, Portugal.
TAV	Technical School of Agriculture, Viamão, Brazil, S.A.
TH	Institute for Special Botany, Confederated Technical University, Universitätstr. 2, Zürich 6, 8000, Switzerland. *Also* ETH-M and ETHZ.
TH-M	*See* ETH.
THZ	*See* ETH.
TU	Faculty of Engineering, Tokyo University, Tokyo, Japan.
VEC	Experiment Station of Viticulture and Enology, Caxias do Sul, Río Grande de Sur, Brazil, S.A.
VEV	Villafranca del Penades Station of Viticulture and Enology, Spain.
VOWG	Confederated Research Institute for Fruit, Wine and Horticulture, Wädenswil, Switzerland. *Also* EVWS.
VWS	*See* EVOWG.
AO	Food and Agriculture Organization of the United Nations, Roma, Italy.
AT	*See* ACTU.
AU	Faculty of Agriculture, Utsunomiya University, Japan.
AUK	Faculty of Agriculture, University of Kyoto, Kyoto, Japan.
AVBA	Agronomy and Veterinary Faculty, Buenos Aires, Argentina, S.A.
BRI	Biochemical Research Institute, Kalevenkatu 56 B, Helsinki 18, Finland.
CTU	Institute of Forest Chemistry, Department of Forest Products, Faculty of Agriculture, Tokyo University, Tokyo, Japan.
DA	U.S. Food and Drug Administration, 7th and Jefferson Drive S.W., Washington, D.C. 20204 U.S.A.
EFQ	Fermentations and Enology, Faculty of Chemistry, Montevideo, Uruguay, S.A.

FEH	Experiment Station of Forestry of Hokkaido, Sapporo, Japan.
FERM	Fermentation Research Institute, Agency of Industrial Science and Technology, Ministry of Industrial Trade and Industry, Chiba, Japan. FERM-P is acronym for patent deposition strains.
FES	Government (or National) Forest Experiment Station, M.A.F., 770-4, Shimomeguro, Meguro-ku, Tokyo, Japan.
FGSC	Fungal Genetics Stock Center, Humboldt State College Foundation, Arcata, Calif. 95521 U.S.A.
FH	Farbwerken Hoechst Aktiengesellschaft, Frankfurt/Main-Hoechst, Germany. *Also* FHP.
FHP	*See* FH.
FHSP	Faculty of Hygiene, San Pablo, Brazil, S.A.
FIE	Tree Botany Institute, Eberswalde, East Germany.
FIL (ФИЛ)	Leningrad Pharmaceutical Institute, P-22, ul. Popova 14, Leningrad, U.S.S.R.
FIUG	Tree Botany Institute, University of Göttingen, Göttingen, Germany.
FLRM	Farmitalia Microbiological Research Laboratory, Milano, Italy.
FMJ	Faculty of Medicine, Juntendo University, Tokyo, Japan.
FMP	Faculty of Medicine, Paris, France.
FMSP	Mycology Laboratory, Faculty of Medicine, University of Sao Paulo, Caixa Postal 2921, São Paulo *or* San Pablo, Brazil, S.A.
FMT	Faculty of Medicine, University of Tokyo, Tokyo, Japan.
FPhP	Faculty of Pharmacy, Paris, France.
FPRL	Forest Products Research Laboratory, Princes Risborough, Bucks, England.
FQIA	Faculty of Industrial Chemistry and Agriculture, National University del Litoral, Santa Fé, Argentina, S.A.
FRAIST	Fermentation Research Institute, Agency of Industrial Science and Technology, Tokyo, Japan.
FRI	Food Research Institute, Ministry of Agriculture and Forestry, Tokyo, Japan. *or* Research Institute for Refrigeration, Bratislava, Czechoslovakia. *or* Forest Research Institute, Dehradun, India.
FRIP	Fermentation Research Institute Patent Collection, Fermentation Research Institute, Ministry of International Trade and Industry, Inage-higashi, Chiba, Japan.

FSK	Research Institute for Food Science, Kyoto University, Kyoto, Japan.
FSP	Faculty of Science, Paris, France.
FST	Faculty of Science, University of Tokyo, Tokyo, Japan.
FUJI	Tokyo Laboratory, Fujisawa Pharmaceutical Industry, Ltd., 957-3, Nukui-Kita-machi, Koganei-city, Tokyo, Japan.
FYU	Department of Fermentation Industries, Yamanashi University, Motoganagi-cho, Kofu-shi, Yamanashi-ken, Japan.
GB	Chair of Microbiology, Faculty of Agronomic Sciences, Gembloux, Belgium.
GBE	Gumma Brewing Experiment Station, Maebashi, Japan.
GCMH	Mycological Herbarium of Ghana.
GCRI	Glasshouse Crops Research Institute, Littlehampton, Sussex, England.
Genf	Chodat Collection, Genf, Switzerland.
GESH	Government Experiment Station of Hygiene, Tokyo Japan.
GIB	Research Institute of Brewing, Tax Administration Agency, Takinogawa 2-6, Kita-ku, Tokyo 114, Japan. May be BSRI or RIB.
GKI (ГКИ)	National Institute of Medical and Biological Preparation. L.A. Tarasevkha Ministry of Public Health Service, G-2, Sivtsev-Vrazhek, 41, Moscow, U.S.S.R.
GLAXO	Glaxo Research Ltd., Sefton Park, Stoke Poges, Buckinghamshire, England. *See also* GLMI.
GLMI	Glaxo Laboratories, Ltd., Greenford, Middlesex, England. *See also* GLAXO.
GRIF	Government Research Institute of Formosa. Now defunct.
GU	Applied Mycological Laboratory, College of Agriculture, Gifu University, Gifu, Japan.
HAC	Hyogo University of Agriculture, Sasayama, Japan.
HACC	Research Laboratories, Hindustan Antibiotics, Ltd., Pimpri Poona, 18, India. *See also* ARCH.
Hankey	Hankey Culture Collection, Colonial Microbiological Research Institute, Port-of-Spain, Trinidad, B.W.I. *Also* Hankey HCC and HCC. The Hankey Collection is no longer in existence.
Hankey HCC	*See* Hankey.
HBL	The Hartley Botanical Laboratory, University of Liverpool, Liverpool, England.
HCB	Herbarium of the Congo.
HCC	*See* Hankey.

HCIO	Herbarium Cryptogamie Indiae Orientalis, Division of Mycology and Plant Pathology, Indian Agricultural Research Institute, New Delhi, India.
HFES	Hiroshima Fermentation Experiment Station, Hiroshima, Japan.
HI	Haffkine Institute, Bombay, India.
HIM	Hygiene Institute and Medicinal Research Service, University of Marburg, Marburg, Germany.
HIR	Food and Fermentation Division, Hokkaido Prefectural Industrial Research Institute, Sapporo, Japan.
HMS	Hopkins Marine Station of Stanford University, Pacific Grove, Calif. 93950 U.S.A. *Also* HMSSU.
HMSSU	*See* HMS.
Hoffmann	Hoffmann La Roche Inc., Nutley, N.J. 07110 U.S.A.
HRIRMH	Walter and Eliza Hall Research Institute, Royal Melbourne Hospital, Melbourne, Australia.
HSLP	Saint Louis Hospital, Paris, France.
HUT	Department of Fermentation Technology, Faculty of Engineering, Hiroshima University, 3-Chôme, Senda-Machi, Hiroshima City, 730, Japan.
IAB	ICSU Abstracting Board.
IABH	Bello Horizonte Agronomic Institute, Minas Gerais, Brazil, S.A.
IAC	Campinas Agronomic Institute, San Pablo, Brazil, S.A.
IACOMS	International Advisory Committee on Marine Sciences.
IAL	Adolfo Lutz Institute, São Paulo, Brazil, S.A.
IA Louvain	Agronomy Institute, Louvain, Belgium.
IAM	Institute of Applied Microbiology, University of Tokyo, Mukogaoka I-I-I *or* 1-chôme Yayoi-cho, Bunkyo-ku, Tokyo, Japan.
IAMB	International Association of Microbiologists (superseded by IAMS).
IAMS	International Association of Microbiological Societies.
IAMUT	Faculty of Agriculture, Hokkaido University, Sapporo, Japan.
IARI	Indian Agricultural Research Institute, New Delhi, India.
IAUM	Institute of Agriculture, University of Minnesota, Minneapolis, Minn. 55455 U.S.A.
IAUR	Institute of Antibiotics, University of Recife, Recife, Pernambuco, Brazil, S.A.
IAW	Institute of Antibiotics, ul. Staroscinska 5, Warsaw 12, Poland.

IB	São Paulo Biological Institute, São Paulo, Brazil, S.A. *or* San Pablo Biological Institute, San Pablo, Brazil, S.A. *or* Institute of Biophysics, Czechoslovak Academy of Sciences, Královopolska 135, Czechoslovakia.
IBA	Asuncíon Bacteriological Institute, Asuncíon, Paraguay, S.A.
IBCAS	Institute of Biology, Czechoslovak Academy of Sciences, Prague, Czechoslovakia.
IBFI (ИБФИ)	Institute of Biophysics, U.S.S.R. Academy of Sciences, V-133, ul. Profsoyuznaya 7, Moscow, U.S.S.R.
IBG	Institute of Soil Fertility, Oosterweg 41, Haren, Groningen, Netherlands. *or* Botanical Institute, Geneva, Switzerland.
IBGH	Institute for Botany, Fermentation Physiology and Yeast Pure Culture of the Teaching and Investigations Establishment for Wine, Fruit and Horticulture, Geisenheim am Rhein, Germany.
IBL	Botanical Institute, Lisbon Faculty of Sciences, Lisbon, Portugal.
IB Lyon	Institute of Bacteriology, Lyon, France.
IBM	Laboratory of Mycology, Malbrán Bacteriological Institute, Vélez Sarsfield 563, Buenos Aires, Argentina, S.A. Now known as National Institute of Microbiology.
IBP	International Biological Program.
IBSC	Institute of Bacteriology, Santiago, Chile, S.A.
IBSIC	Institute of Biology and Serotherapy, Cajal Institute, Madrid, Spain.
IBSS	Institute of Bacteriology, Stockholm, Sweden.
IBUB	Botanical Institute, University of Basle, Basle, Switzerland.
IBSP	Butantan Institute, San Pablo, Brazil, S.A.
ICA	Laboratory of Microbiology, Section of Viticulture, Institute of Cercetari Agronomy, Bucharest, Romania.
ICAR	Institute of Cercetari Agronomy, Bucharest, Romania.
ICCC -I	First International Conference on Culture Collections, held in Tokyo, Japan, October 7-11, 1968.
ICCC-II	Second International Conference on Culture Collections, held in São Paulo, Brazil, S.A., July 15-20, 1973.

ICI	Butterwick Research Laboratories, Imperial Chemical Industries, Ltd., Welwyn, Herts, England.
ICIA	International Center of Information on Antibiotics, 32 Blvd. de la Constitution, Liège, Belgium.
ICI Nobel Div.	Imperial Chemical Industries, Ltd., P.O. Box 25, Alderley Park, Macclesfield, Cheshire, England.
ICPB	International Collection of Phytopathogenic Bacteria, Davis, Calif. 95616 U.S.A.
ICQ	Institute of Clinical Surgery, Clinical Hospital, Buenos Aires, Argentina, S.A.
ICRO	International Cell Research Organization.
ICST	Imperial College of Science & Technology, London, England.
ICSU	International Council of Scientific Unions.
IDPL	Indian Drugs and Pharmaceuticals, Ltd., Virbhadra (Rishikesh) U.P., New Delhi, India.
IEB	Institute of Epidemiology and Bacteriology, Prague, Czechoslovakia.
IEBR	Institute of Clinical Surgery, Spain. *or* Spanish Institute of Radicicola Bacteriology, Barcelona, Spain.
IED	Exequiel Dias Institute, Bello Horizonte, Minas Gerais, Brazil, S.A.
IEH	Hokkaido Industrial Experiment Station, Sapporo, Japan.
IEIF	Instituto Experimental de Investigaciones y Fomento Agricóla Ganadero, Santa Fé, Argentina, S.A.
IEM	Institute of Epidemiology and Microbiology, Srobarava 48, Prague 10, Czechoslovakia. *Also* IEMP, IEMUEMand UEM.
IEMP	*See* IEM.
IEMUEM	*See* IEM.
IFCC	International Federation of Culture Collections (a subsidiary of IAMS, but no longer in existence).
IFEU	Estanzuela Phytotechnical Institute, Colonia, Uruguay, S.A.
IFM	Institute for Food Microbiology, Chiba University, 113-4, Okubo, Narashino-city, Chiba *or* 3-9-1 Izumi-cho, Narashino-shi, Chiba-ken, Japan. *or* Institute for Microbiology, Humboldt University, Berlin, East Germany.
IFO	Institute for Fermentation, 54-4, Nishino-machi, Juso, Higashiyodogawa-ku *or* 4-54 Nishino-cho, Juso, Higashiyodogawa-ku *or* Juso Nishino-machi, Higashiyodogawa-ku, Osaka, Japan.

IGC	Center of Biology, Gulbenkian Institute of Science, Oeiras, Portugal.
IGOF	Allied Biological Establishment for Soil and Forest Husbandry, Institute for Cereal, Oil Plants and Forage Plant Diseases, 2305 Kiel-Kitseberg, Germany.
IH	Institute of Hygiene, Warsaw, Poland.
IH Basle	Institute of Hygiene, Basle, Switzerland.
IH Berne	Institute of Hygiene, Berne, Switzerland.
IH Budapest	Institute of Hygiene, Budapest, Hungary.
IHFM	Institute of Hygiene, Frankfort am Main, Germany.
IHL	Institute of Hygiene, Lausanne, Switzerland.
IHM	Laboratory of Mycology, Faculty of Medicine, Montevideo Institute of Experimental Hygiene, Avda. A. Ricaldoni 3051, Montevideo, Uruguay, S.A.
IH Milano	Institute of Hygiene, Milano, Italy.
IHMU	Institute of Hygiene, Montevideo, Uruguay, S.A.
IH Perugia	Institute of Hygiene, Perugia, Italy.
IH Pisa	Institute of Hygiene, Pisa, Italy.
IHR	Institute of Hygiene, Rome, Italy.
IHS	Institute of Hygiene, Strasbourg, France.
IHUP	Institute of Hygiene, University of the Philippines, Manila, Philippines.
IHUT	Institute of Hygiene of the University, Istanbul, Turkey. *or* Institute of Hygiene, University of Vienna, Vienna, Austria.
IID	Institute for Infectious Diseases, University of Tokyo, 1-39 *or* 1-Chôme Shiba-Shirokanedai-machi, Minato-ku *or* 1-Chôme, Shiroganedai, Minato-ku, Tokyo, Japan. (Formerly The Institute of Medical Science, University of Tokyo.)
IIEM	Indian Institute for Experimental Medicine, Calcutta, India.
IISR	Indian Institute of Sugar Research, Kanpur, India.
IJMARI	Indian Jute Mills Association Research Institute, Calcutta, India.
Ill.	Department of Plant Pathology, University of Illinois, Urbana, Ill. 61801.
IM	Inoculation Manufactory, Strančice, Czechoslovakia. *or* Microtheque, Mêrieux Institute, France.
IMA	Chair of Bacteriology, Agronomic and Veterinary Faculty, Institute of Agricultural Microbiology, M.A.G., Frederico Laxrose 2154, Buenos Aires, Argentina, S.A. *or* Institute of Microbiology and Agropecurios Industry, I.N.T.A., Castelar, B.A., Argentina, S.A. *See* IAMB. *Also* I.M.I.A.

IMAB	*See* IMA.
IMAN (ИМАН)	Institute of Microbiology, U.S.S.R. Academy of Sciences, Moscow, U.S.S.R. Rare, usually INMI.
IMASP	Museum of Cultures, Institute of Mycology, Academy of Sciences of People's Republic of China, Peking, China.
IMAT	Institute of Agricultural and Technical Microbiology, Perugia, Italy.
IMATUN	Institute of Agricultural and Technical Microbiology, University of Naples, Naples, Italy.
IMB	Institute of Microbiology and Biochemistry, Maria Curie Shlowdowska University, Lublin, Poland.
IMC	IMC Culture Collection, Growth of Sciences Center, International Minerals and Chemical Corporation, Libertyville, Ill. 60048 U.S.A. *or* Institute of Microbial Chemistry, 3-14-23 Kamiosaki, Shinagawa-ku, Tokyo, Japan.
IMCAS	Institute of Microbiology, Czechoslovak Academy of Sciences, Na cvičišti 2, Prague, Czechoslovakia.
IMET	Institute for Microbiology and Experimental Therapy, Beuthenbergstrasse 11, Jena 69, East Germany.
IMI	Imperial Mycological Institute, Kew, England. *See* CMI. *Also* IMI CMI.
IMIA	*See* IMA.
IMI CMI	*See* IMI.
IMIV (ИМИВ) or (ИМЦВ)	Institute of Microbiology and Virusology, Kazakh Academy of Sciences, Kirova 103, Alma-Ata, Kaz. S.S.R. *Also* IMiV.
IMRM	Institute of Medical Research, Malaya.
IMRU	Institute of Microbiology, Rutgers-The State University, New Brunswick, N.J. 08903 U.S.A.
IMS	Institute of Microbiology, Sofia, Bulgaria.
IMT	Institute of Tropical Medicine, Basle, Switzerland.
IMTPL	Prince Leopold Institute of Tropical Medicine, Anvers, Belgium.
IMUNT	Institute of Microbiology, University of Tucumán, Tucumán, Argentina, S.A. *Also* IMUT.
IMUR	Institute of Mycology, University of Recife, Recife, Brazil, S.A.
IMUT	*See* IMUNT.
IMVS	Institute of Medical and Veterinary Science, Adelaide, Australia.
IMZH (ИМЖ)	Institute of Animal Morphology, ul. Vavilova, 12, Moscow, U.S.S.R.

IN	Research Institute, Ihara Noyaku Company, Ltd., 1000 Shibukawa, Shimizu-Shi, Shizuoka-ken, Japan.
INA (ИНА)	Institute for Research on New Antibiotics, Bolshaia Pirogovskaia 11, Moscow, U.S.S.R. *Also* IRNA.
INBVV (ИНБВВ)	Institute of Biology of Inland Waters, Borok, Nikouzskii District, Yaroshalskoi Region, U.S.S.R.
INBYUM (ИНБЮМ)	Institute of Biology of the Southern Seas, Academy of Sciences, Ukranian S.S.R., Sevastopol, Ukr.S.S.R.
INMI (ИНМИ)	Institute of Microbiology, U.S.S.R. Academy of Sciences, Profsojuzanaja 7, Moscow B-133, U.S.S.R. *See* IMAN.
INMIA	*See* INMIArm.
INMIArm. (ИНМИАрм.)	Institute of Microbiology, Academy of Sciences, Armenian S.S.R., ul. Charentsa, 19, Erevan, Arm.S.S.R.
INRA	National Institute of Agronomic Research, Paris, France.
INTA	Institute of Plant Pathology, National Institute of Microbiology, Castelar, Argentina, S.A. *or* National Institute of Agropecuria Technology, Buenos Aires, Argentina, S.A.
IOC	Laboratory of Mycology, Oswaldo Cruz Institute, Caixa Postal 926, Rio-Est, Guanabara, Rio de Janeiro, Brazil, S.A.
IP	Institut Pasteur Institute, Docteur Roux, 25, Paris 15, France. *Also* IPPF and IPP. *or* Department of Insect Pathology, Institute of Entomology, Prague, Czechoslovakia.
IPA (ИПА)	Institute of Soil Management and Agrochemistry, Academy of Sciences, Azerbaijan S.S.R., 6-ya Khrebtovaya, 5, Baku, Az.S.S.R.
IPA	Institute of Pedology and Agochemistry, Beograd-Topčider, FNR, Yugoslavia. *or* Institute for Phytopathology, Aschersleben, Germany.
IPAlger	Pasteur Institute, Alger, Algeria.
IPB	Pasteur Institute, Brussels, Belgium.
IPBD	Commonwealth Bureau of Plant Breeding and Genetics, School of Agriculture, Cambridge, England. *See* CPBG.
IPCR	Institute for Physical and Chemical Research, 31, Komagome-Kamifujimae-cho, Bunkyo-ku *or* 2-28-8 Honkomagome, Bunkyo-ku, Tokyo, Japan.

IPD Pasteur Institute, Dakar, French East Africa.

IPF Institut przemyslu fermentacijinego, Warsaw, Poland.

IPFM Institute of Parasitology, Faculty of Medicine, Paris, France.

IPH National Institute of Public Health, Tokyo, Japan.

IPL Pasteur Institute, Lyon 69, France.

IPLille Pasteur Institute, Lille, France.

IP Lisbon Pasteur Institute, Lisbon, Portugal.

IPM Pasteur Institute, Casablanca, Morocco.

IPO Institut voor Plantenziektenkundig Onderzoek, Wageningen, Netherlands.

IPP *See* IP.

IPPF *See* IP.

IPPP Institute for Plant Physiology, University of Prague, Prague, Czechoslovakia.

IPPretoria Institute of Pathology, Pretoria, Union of South Africa.

IPR Institute of Parasitology of the University, Rome, Italy.

IPT Pasteur Institute, Túnez, Africa.

IPV Institute of Plant Pathology, University of Milano, Via Celoria 2, 20133, Milano, Italy. *Also* IPV (M) and IPVM.

IPVM *See* IPV.

IPV (M) *See* IPV.

IPV (Pisa) Institute of Plant Pathology, Pisa, Italy.

IPZ Institute of Soil Science, Teodora Drajzera 7, Beograd, Yugoslavia.

IRCE Ramon y Cajal Institute, Madrid, Spain.

IRK Robert Koch Institute, Berlin, Germany.

IRNA *See* INA.

ISC International Salmonella Center.

ISC Iowa State College, Ames, Iowa 50010 U.S.A. *Also* ISU.

ISET Institute of Health and Tropical Diseases, México, D.F., México.

ISN Institute of Natural Sciences, Ciudad Universitaria, Bogota, Columbia, S.A.

ISP International *Streptomyces* Project, Ohio Wesleyan University, Delaware, Ohio 43015 U.S.A.

ISR Istituto Superiore di Sanite, Rome, Italy. *Also* ISSR.

ISRA Institute of Soil Research & Agrochemistry, Hungarian Academy of Science, Herman Otto út 15, Budapest II, Hungary.

ISSR *See* ISR.

ISTD Danish Institute of Sero-therapy, Copenhagen, Denmark.

ISTI	Indian Sugar Technological Institute, Kanpur, India.
ISTTU	Institute of Science & Technology, University of Tokyo, Tokyo, Japan.
ISU	Department of Agronomy, Iowa State University, Ames, Iowa 50010 U.S.A.
ISV	Institute of Plant Health, M.A.G., Argentina, S.A.
ISVI	State Institute of Serums and Vaccines, Hessarak-Karadj, Iran.
ISVV (ИСВВ)	Scientific Research Institute of Horticulture, Grape Growing and Winemaking, Kishinew, U.S.S.R.
ITBA	Institute of Technology, Buenos Aires, Argentina, S.A.
ITCC	Indian Type Culture Collection, Division of Mycology and Plant Pathology, Indian Agricultural Research Institute, New Delhi 12, India.
ITCCF	Indian Type Culture Collection of Fungi, Indian Agricultural Research Institute, New Delhi 12, India.
ITH	Institute of Tropical Hygiene, Amsterdam, Netherlands.
ITK	Institute of Tuberculosis, Kyoto University, Mukaharmachi, Shogoin, Sakyo-ku, Kyoto, Japan.
IU	The Culture Collection of Algae, Indiana University, Bloomington, Ind. 47401 U.S.A.
IUB	International Union of Biochemistry.
IUBS	International Union of Biological Sciences.
IUNG	Instytut Uprawy, Nawózenia i Gleboznowsta, Pulawy, Poland.
IUNS	International Union of Nutritional Sciences.
IUPAB	International Union of Pure and Applied Biophysics.
IUPAC	International Union of Pure and Applied Chemistry.
IVBP	Veterinary Institute of Bacteriology and Parasitology, University of Berne, Berne, Switzerland.
IVL	Veterinary Institute, Lausanne, Switzerland.
IZ	Fermentation Institute, University of São Paulo, Caixa Postal 56, Piracicaba, São Paulo *or* San Pablo, Brazil, S.A.
IZS	Institute of Experimental Zooprophylactics, Teramo, Italy.
JARA	Japan Antibiotic Research Association, Tokyo, Japan.
JARI	Jute Agricultural Research Institute, Barackpore, Cuttack, India.
JCC	Biology Department, Agricultural Institute, Johnstown Castle, Wexford, Ireland.

JDA 2nd Research Center, Development & Research H.Q., Japan Defense Agency, 9, Ikejiri-cho, Setagayu-ku, Tokyo, Japan.

JFCC The Japanese Federation of Culture Collections of Micro-organisms, Institute for Infectious Diseases, University of Tokyo, Shiba-shiroganedai-machi, Minato-ku *or* Institute of Applied Microbiology, University of Tokyo, Bunkyo 8-ku,, Tokyo, Japan.

JHU Johns Hopkins University, Baltimore, Md. 21205 U.S.A.

JMCH Japan Monopoly Corporation, Hatano Tobacco Institute, Kanagawa, Japan.

JNAU Department of Soil Science and Agricultural Chemistry, J.N.A.U., P.B. No. 80, Krishinangar, Jabalpur, India.

Kaken Kaken Chemical Company, Ltd., 31 Komagome, Kamifujimae-cho, Bunkyo-ku, Tokyo, Japan. *See also* KCC and KChC.

Kayaku Kayaku Antibiotics Research Company, 8-2 chôme, Funado-cho, Itabashi-ku, Tokyo, Japan.

KBPMGU (КБПМГЧ) Department of Biology, Faculty of Biology, M.V. Lomonosova Moscow National University, Leninsky gory., Moscow, U.S.S.R.

KCC Culture Collection of Actinomycetes, Kaken Chemical Company, Ltd., 6-42, Jujodai 1-Chôme, Kita-ku *or* 31, Komagome, Kamifujimae-cho, Bunkyo-ku, Tokyo 114, Japan. *See also* Kaken and KChC.

KChC *See* KCC.

KFRI Laboratory of Comparative Biology, Karsir Foundation Research Institute, Richmond, Calif. 94802 U.S.A.

KGU (КГЧ) Kishinevsy National University, g., Kishinev, ul. Pirogova, 65, U.S.S.R.

KHGU (ХГЧ) Kharbkovsky National University, ul. Universitetskaya, 16, Kharbkov, U.S.S.R.

KHL Kobe Hygienic Laboratory, Hyogo, Japan.

KHS Regional Public Health Laboratory Service *or* Regional Hygienic Stations, Czechoslovakia.

KI The Kitasato Institute, 138 Shirokane, Sanko-cho, Minato-ku, Tokyo, Japan. *See* KIID. *Also* KITA.

KIID Department of Antibiotics, Kitasato Institute, Shiba, Shirogane, Sanko-cho, Minato-ku, Tokyo, Japan. *See* KI. *Also* KITA.

KITA *See* KIID.

KMMGU (КММГЧ) Department of Microbiology, Faculty of Biology, M. V. Lomonosova Moscow National University, Leninskie gory., Moscow, U.S.S.R.

KNG & SF Koninklijke Nederlandsche Gist en Spiritusfabriek N.V., *or* Gist-Brocades N.V., Delft, Netherlands.

NRMGU (КНРМГЧ)	Department of Lower Plants, Faculty of Biology, M.V. Lomonosova Moscow National University, Leninskie gory., Moscow, U.S.S.R.
PUM	Medical Microbiological Department, Kyoto Prefectural University, Kyoto, Japan.
rál	The Král Collection, one of the first collections of living microorganisms which operated in modern fashion. This collection ceased to exist in 1942.
SE	Kagawa Shoyu Experimental Station, Tokushima, Japan.
TH	Royal Technical High School, Stockholm, Sweden.
UT	Faculty of Engineering, Kansai University, Osaka, Japan.
Y	Tokyo Research Laboratory, Kyowa Hakko Kogyo Company, Ltd., Tokyo, Japan.
YA	Laboratory of Zymotic & Industrial Fermentations, Faculty of Agriculture, Kyushu University, Fukuoka, Japan. *Also* KYU.
YM	Faculty of Medicine, Kyushu University, Fukuoka, Japan.
YU	*See* KYA.
AKTOFLORA	Research Laboratories of the Dairies, Association for the Production of Pure Milk Cultures, Laktoflora, Ke dvoru 2, Prague 6, Czechoslovakia.
APP	Laboratory for Anatomy and Physiology of Plants, J.E. Purkyně University, Kotlářská, 2, Brno, Czechoslovakia.
BG	Institute for Agricultural Bacteriology and Fermentation Biology, Confederated Technical High School, Zurich, Switzerland.
BIH	Landbouwproefstation en Bodemkunding Institut, T.N.O. Groningen, Netherlands.
BL (ЛБЛ)	V.I. Lenin Laboratory Library, G-19, ul., Kalinina 3, Moscow, U.S.S.R.
BPB	Laboratory of Bacteriology and Parasitology, Faculty of Medicine, University of Bruxelles, Brussels, Belgium.
C	*See* LCP.
CD	Carlsberg Laboratory, Copenhagen, Denmark.
CF	Central Laboratory of Phytopathology, Buenos Aires, Argentina, S.A.
CI	Italian Cryptogamic Laboratory, Botanical Institute, University of Pavia, Pavia, Italy. *See* LCPI.
CP	Laboratory of Cryptogamy, National Museum of Natural History, 12 Rue de Buffon, Paris (5°), France. *Also* LC, MP, PC, LC(P), Mycotheque, and MNHN.
C(P)	*See* LCP.
CPI	Cyptogamic Laboratory, Pavia, Italy. *See* LCI.

Lederle	Lederle Laboratories, Division of American Cyanamid Company, Pearl River, N.Y. 10965 U.S.A.
Lepetit	Lepetit S. p. A., Via Roberto Lepetit 8, Milano, Italy.
LFCD	Laboratory of Fermentology, Alfred Jörgenson, Copenhagen, Denmark.
LGU (ЛГЧ)	Department of Microbiology, Leningrad National University, Universitetskaya nab., 7/9, Leningrad, U.S.S.R.
LIA (ЛИА)	Museum of Cultures, Leningrad Research Institute of Antibiotics, 32 Ogorodnikov Prospect, Leningrad L-20, U.S.S.R.
LIAN (ЛИАН)	Leningrad Institute of Antibiotics, Ogorodnikova dr. 23, Leningrad, U.S.S.R.
Lilly	Eli Lilly and Company *and* The Lilly Research Laboratories, Indianapolis, Ind. 46206 U.S.A.
LIP	Laboratory of Insect Pathology, University of California, Berkeley, Calif. 94701 U.S.A.
LKB	Laboratory of Kodama Brewing Company, Itagawa machi, Akita Prefecture, Japan.
LIA	Department of Microbiology, Latvian Academy of Agriculture, Jelgava, Latvia, U.S.S.R.
LM	Laboratory for Microbiology, Delft, Netherlands.
LMW	Laboratory of Microbiology, University of Wageningen, Wageningen, Netherlands.
LNGI (ЛНГИ)	Institute of Chemistry of Natural Products, Moscow, U.S.S.R.
LP	Mycothèque, Laboratory of Parasitology, Faculty of Medicine, Paris, France.
LPS	Sociente Anonyme: Les Produits Organiques du Santerre Orsan, Paris, France.
LQA	Laboratorio de Química Agricola.
LRI	Leather Research Institute, Otrokivice, Czechoslovakia.
LSH	London School of Hygiene and Tropical Medicine, London, England. *Also* LSHTM.
LSHB	Biochemistry Department, London School of Hygiene and Tropical Medicine, Keppel Street (Gower Street), London, WCI, England.
LSHM	Mycological Reference Laboratory, London School of Hygiene and Tropical Medicine, London, England.
LSHTM	*See* LSH.
LSL (ЛСЛ)	The Lenin State Library, Moscow, U.S.S.R.
LT	Treub Laboratory, Boger, Indonesia.
LUV	Ultra-virus Laboratory, Lyon, France.
MacC	Department of Microbiology, Macdonald College, Quebec, Canada.

MACN	Argentine Museum of Natural Sciences, "Bernardino Rivadavia," Buenos Aires, Argentina, S.A.
Magarač	All-Union Scientific-Research Institute of Viniculture and Viniculture, Magarač, Jalta, Krym, U.S.S.R.
MAR	Grasslands Research Station, P. Bag 701, Marondellas, Rhodesia.
MAUE	Laboratory of Industrial Microbiology, Faculty of Agriculture, Tokyo University of Education, Tokyo, Japan.
MB	Herbarium, Botanical Institute, University of Marburg, 355 Marburg/Lahn, Germany. *or* Monopoly Bureau of Japan, Tokyo, Japan.
MCRL	Microbial Chemistry Research Laboratories, Tanabe Seiyaku Company, Limited, 2-2-50 Kawagishi Toda-shi, Saitama-ken *or* 3073 Shimatoda, Toda-machi, Kita-adashi-gun, Saitama-ken, Japan.
MCU	Faculty of Medicine, Chiba University, Chiba, Japan.
MDB	Microbiology Department, Faculty of Natural Sciences, J.E. Purkyně University, Brno, Czechoslovakia.
MDH	Michigan Department of Health, Lansing, Mich. 48914 U.S.A.
MEIJI	Meiji Milk Products Company, Tokyo, Japan.
MEJ	Ministry of Education, Mombu-sho, Japan.
Merck	Merck Sharp and Dohme Laboratories, Division of Merck and Company, Incorporated, Rahway, N.J. 07065 U.S.A.
MFC	Matsushima Fungus Collection, Shionogi Research Laboratory, Shionogi & Company, Limited, Fukushima-ku, Osaka, Japan.
406 MGL	406th Medical General Laboratory, U.S. Army, Zama, Japan.
Millport	Marine Station, Millport, Scotland.
MKU	Faculty of Medicine, Kanagawa University, Ishikawa, Japan.
MLA	Mycological Laboratory, Botany Department, Allahabad University, Allahabad, India.
MLPF	Laboratory of Microbiology, Faculty of Agriculture, Sarajevo, Yugoslavia.
MMRS	Mount Makulu Research Station, Northern Rhodesia.
MNC	Morinaga Confectionery Company, Laboratory, Tokyo, Japan.
MNHN	*See* LCP.

MO	School of Medicine, Osaka University, Osak Japan.
MOCU	Department of Biochemistry, Osaka City Unive sity, School of Medicine, 2-Chôme, Asahi-macl Abeno-ku, Osaka, Japan. *Also* MOMU.
MOMU	*See* MOCU.
Montecatini	Antibiotic Research Laboratory of S.A. Montec tini, Milano, Italy.
MP	*See* LCP.
MR	Mycological Herbarium of the Federation Rhodesia and Nyasaland.
MRE	Microbiological Research Establishment, Porto England.
MRI	Microbiology Research Institute, Central Expe mental Farm, Ottawa, Ontario, Canada.
MRNY	Medical Research, New York, N.Y. 11101 U.S.
MSNZ	Medical School, Dunedin, New Zealand.
MSU (MCЧ)	The Moscow State University, Moscow, U.S.S.R.
MTHU	Department of Bacteriology, Faculty of Medicin Tohoku University, 4 Ban-cho, Kita, Sendai Ci *or* Kita 4 Ban-cho, Sendai-shi, Miyagi-ken, Japa
MTU	Faculty of Medicine, University of Tokyo, 7-Chôm Hongô, Bunkyo-ku, Tokyo, Japan.
MU	Laboratory of Fermentation, Faculty of Agricultur Mie University, Tsu, Japan.
MULg	Department of Microbiology, University of Lièg 32, Boulevard de la Constitution, Liège, Belgiu
MVZ	Veterinary Hygienic Laboratories, Czechoslovak
MW	Mycology Division, Institute for Special Botan Jena, Weimar, East Germany.
Mycotheque	*See* LCP.
NADL	National Animal Disease Laboratory, Ames, Iow 50010 U.S.A.
NARI	National Agricultural Research Institute, M.A.I Tokyo, Japan.
NARI (AES)	*See* NARI.
NBIR	The National Bureau of Industrial Researc Ministry of Economic Affairs, P.O. Box 26 Chungking, China.
NBIRN	The National Bureau of Industrial Researc Nanking, China.
NBL	Naval Biological Laboratory, Oakland, Cal 94623 U.S.A.
NCA	National Canner's Association, Washington, D. 20006 U.S.A.
NCDC	*See* CDC.
NCDO	National Collection of Dairy Organisms, Shinfiel Reading, Berkshire, England.

National Collection of Industrial Bacteria, Ministry of Agriculture, Fisheries, and Food, Torry Research Station, P.O. Box 31, 135 Abbey Road, Aberdeen AB9 8DG, Scotland.

National Collection of Industrial Microorganisms, National Chemical Laboratory, Poona 8, Maharashtra, India.

National Chemical Laboratory, Division of Technical Services, Poona 8, India.

National Collection of Marine Bacteria, Ministry of Agriculture, Fisheries, and Food, Torry Research Station P.O. Box 31, 135 Abbey Road, Aberdeen AB9 8DG, Scotland.

National Collection of Plant Pathogenic Bacteria, Plant Pathology Laboratory, Harpenden, Hertsfordshire, England.

North Carolina State College, Raleigh, N.C. 27607 U.S.A.

National Collection of Type Cultures, Central Public Health Laboratory, Colindale Avenue, London, N.W. 9, England. (Formerly located at the Lister Institute.)

Medical School, Nagoya City University, Nagoya, Japan.

National Collection of Yeast Cultures, Brewing Industry Research Foundation, Nutfield, Redhill, Surrey, England.

Former National Defense Research Committee, Washington, D.C., U.S.A.

Department of Bacteriology, North Dakota State University, Fargo, N. Dak. 58102 U.S.A.

Nobel Explosives Company, Ardeer, Scotland.

Non-Governmental Organizations.

Department of Agriculture, Stock and Fisheries, Port Moresby, Papua and New Guinea.

National Hygienic Laboratory *or* National Institute of Hygienic Sciences, 2-203 Tamagawa Yoga-machi, Setagaya-ku, Tokyo, Japan.

Nagao Institute, 96 Kinuta-machi, *or* 380 Mishuku, Satagaya-ku, *or* Kitashinagawa, Tokyo, Japan.

National Institute of Animal Health, Ministry of Agriculture and Forestry, Jôsui-hommachi, Kodaira City, Tokyo, Japan.

National Institute for Agricultural Quality Testing, Keleti Károly u. 24, Budapest II, Hungary.

Department of Soils and Fertilizers, National Institute of Agricultural Sciences, Nishigahara, Kita-ku, Tokyo, Japan.

NIG	National Institute of Genetics, Shizuoka, Mishima, Japan.
NIH	National Institutes of Health, Bethesda, Md. 20014 U.S.A. *Also* NIHA. *or* National Institute of Health of Japan, Tokyo, Japan. *See also* NIHA and NIHJ.
NIHA	*See* NIH.
NIHJ	National Institute of Health of Japan *or* Department of Antibiotics, National Institute of Health of Japan, 284, Chojamaru, 2-10 Kamiosaki, Shinagawa-ku, Tokyo, Japan. *See* NIH.
NIK	Nagao Institute, Kyoto Branch, Kyoto, Japan. No longer in existence.
NIMR	National Institute for Medical Research, London, England.
NIRD	National Institute for Research in Dairying, Shinfield, Reading, Berkshire, England.
NISL	Noda Industrial Science Laboratory, Noda *or* Chiba, Japan.
NIST	National Institute of Science and Technology.
NIVM	National Institute of Veterinary Medicine, Brno, Czechoslovakia.
NJES	New Jersey Agricultural Experiment Station, New Brunswick, N.J. 08903 U.S.A.
NLABS (QM)	Pioneering Research Laboratory, U.S. Army Natick Laboratories, Natick. Mass. 01760 U.S.A.
NPN	Department of Agricultural Chemistry, Nagoya University, Chikusa-ku, Nagoya, Japan.
NRC	National Research Council, Sussex Drive, Ottawa 2, Ontario, Canada. *Also* NRC Canad. and NRCC. *or* National Research Centre, Ministry of Scientific Research, Sh. El-Tahrir., Dokki, Cairo, United Arab Republic.
NRC Canad.	*See* NRC.
NRCC	*See* NRC.
NRRL	ARS Culture Collection, Northern Regional Research Laboratory, Agricultural Research Service, U.S. Department of Agriculture, 1815 N. University Street, Peoria, Ill. 61604 U.S.A. Formerly referred to as Culture Collection Unit, Fermentation Section, Northern Utilization Research and Development Division *or* Northern Regional Research Laboratory.
NRS	Collection of Nathan R. Smith, U.S. Department of Agriculture, Washington, D.C. 20250 U.S.A. Also at ARS Culture Collection, Peoria, Ill. 61604 U.S.A. and IMRU.

NSM	National Science Museum, Tokyo, Japan.
NTCCI	National Type Culture Collection, Indian Institute of Science, Bangalore, India.
NTHC	Norse Technical Høgskoles Collection, Department of Biochemistry, Technical University of Norway, Trondheim MTH, Norway.
NTSU	Department of Biological Sciences, North Texas State University, Box 5218, N.T. Station, Denton, Tex. 76203 U.S.A.
NUFS	Faculty of Science, Nagoya University, Nagoya, Japan.
NYBG	New York Botanical Garden, Bronx Park, New York, N.Y. 10458 U.S.A.
NYSDH	New York State Department of Health, Albany, N.Y. 12224 U.S.A.
OAC	Mycological Herbarium, Department of Botany, Ontario Agricultural College, Guelph, Canada.
OECD	Organization for Economic Co-operation and Development, Paris, France.
OEEC	Organization of European Economic Cooperation. Superseded by OECD.
OEU	Tennoji Branch, Osaka University of Liberal Arts and Education, Minami-Kawabori-cho, Tennoji-ku *or* Ikedashi, Osaka, Japan. See *also* OUE. OEU is usual acronym.
OHS	Public Health Laboratory Services *or* District Hygienic Stations, Czechoslovakia.
OMC	Osaka Medical College, Osaka, Japan.
OMS	World Health Organization.
OPA	Faculty of Agriculture, Osaka Prefectural University, Osaka, Japan.
OPH	Osaka Prefectural Hospital, Osaka, Japan.
ORL	Laboratory of Microbiology, Faculty of Science, 45-Orleans 02, Loiret, France.
ORTHO	Ortho Research Foundation, Raritan, New Jersey, U.S.A. *Also* Ortho Res. Found.
Ortho Res. Found.	*See* ORTHO.
OSDA	Department of Agronomy, The Ohio State University, 1885 Neil Avenue, Columbus, Ohio 43210 U.S.A.
OSU	Withycombe Hall, Oregon State University, Corvallis, Ore. 97331 U.S.A.
OTHS	*See* OUT.
OUE	*See* OEU. *or* *See* OUT.
OUS	Faculty of Science, Osaka University, Osaka, Japan.

OUT	Faculty of Engineering, Osaka University, Yamadaue, Suita City, Osaka, Japan. *or* Department of Fermentation Technology, Osaka University, 9-Chôme, Higashinoda-machi, Miyakoshima-ku, Osaka, Japan.
OWMC	Department of Microbiology, Osaka Women's Medical College, Osaka, Japan.
Paris	Laboratory of Cryptogamy and Algology, National Museum of Natural History, Paris, France.
PATU	Laboratory of Plant Pathology, Faculty of Agriculture, Tokyo University, Tokyo, Japan.
PC	*See* LCP.
PCC	Purdue Culture Collection, Department of Biological Sciences, Purdue University, Lafayette, Ind. 47907 U.S.A.
PCI	Penicillin Control and Immunology Section, Food and Drug Administration, 7th and Jefferson Drive S.W., Washington, D.C. 20204 U.S.A.
PD	Plantenziektenkundige Dienst, Wageningen, Netherlands. *or* Parke, Davis & Company *and* Parke, Davis Research Laboratories, Joseph Campau at the River, Detroit, Mich. 48232 U.S.A.
PDD	Herbarium of Plant Diseases Division, Auckland, New Zealand.
Pfizer	Charles Pfizer and Company, Groton, Conn. 06340 U.S.A.
PHL	Public Health Laboratory, Albany, N.Y. 12224 U.S.A.
PHLS	Public Health Laboratory Service, Central Public Health Laboratory, Colindale Ave., London, NW9, England.
PIEM	Prague Institute of Epidemology and Microbiology, Prague, Czechoslovakia.
PIR	The N. Poushkarov Institute of Soil Science, 136 9 September Boulevard, Sofia, Bulgaria.
PIRI	Research Institute for the Pharmaceutical Industry, Budapest, Hungary.
PL	Mycotheque, Laboratory of Parasitology, Faculty of Medicine, Paris, France.
PLPH	Provincial Laboratory of Public Health, Edmonton, Alberta, Canada. *See also* UAMH.
Plymouth	Marine Biological Laboratory, Plymouth, England.
PQMD	*See* QM.
Prag	Laboratory of Autotrophic Organisms, Czechoslovakian Academy of Sciences, Prague, Czechoslovakia.
PRI	Plant Research Institute, Ottawa, Ontario, Canada.

PRL	Prairie Regional Laboratory, Saskatoon, Saskatchewan, Canada.
PSA	Progetto Sistematica Actinomiceti, "P". Stazzi" Institute, Institute of Microbiology, University of Milano, Via Mangiagalli 31 *or* Via Celoria 10, Milano, Italy.
PUO	Biologickij ôstav Lek., Fakulty Palackeho University, Olumouc, Czechoslovakia.
PZH	Collection of Cultures, Institute of Hygiene, Warsaw, Poland.
QEC	Queen Elizabeth College, London University, London, England.
QIMR	Queensland Institute of Medical Research, Herston Road, Herston, Brisbane, Queensland 4006, Australia.
QM	Pioneering Research Division, Quartermaster Research and Engineering Command, U.S. Army, Natick Laboratories; Quartermaster Research and Development Center; or Quartermaster Depot, U.S. Army, Philadelphia, Pa. . 19104, U.S.A. *Also* PQMD, QMRDC, and QM QMRDC. QM is usual acronym for designation of cultures.
QM QMRDC	*See* QM.
QMRDC	*See* QM.
RAJ	*See* ARIN.
RCR	Rothamstead Collection of *Rhizobium,* Soil Microbiology Department, Rothamstead Experimental Station, Harpenden, Hertfordshire, England.
RCS	Imperial College of Science and Technology, London University, London, England.
RES	Rothamsted Experimental Station, Harpenden, Hertfordshire, England.
RH	Rudolph Hugh Collection, George Washington University, Washington, D.C. 20006 U.S.A.
Rhone-Poulenc	*See* RP.
RI	Rockefeller Institute, New York City, N.Y. 10020 U.S.A.
RIA	Research Institute for Ampelology, Budapest, Hungary.
	or
(РИА)	USSR Research Institute for Antibiotics, Nagatinskaya ul. 3a, Moscow B-105, U.S.S.R. *Also* USSR RIA and VNIIA.
RIB	Research Institute of Brewing, Tax Administration Agency, 2-6 Takinogawa, Kita-ku, Tokyo 114, Japan. *Also* GIB and BSRI.
	or
	Research Institute, Borstel, Germany.

RIBM	Research Institute for Brewing and Malting, Lipová 15, Prague 2, Czechoslovakia.
RIDC	Research Institute for Distillery and Canning Industry, Miletičova ul. 14b, Bratislava, Czechoslovakia. *See* RIDCI.
RIDCI	Research Institute for Distillery and Canning Industry. *See* RIDC.
RIFY	Research Institute of Fermentation, Yamanashi University, Kofu, Japan. *See* YFI.
RIJPK	Rijksdienst voor de Ijsselmeerpolders, (Ijssel Lake Polders Development and Colonization Authority) Molenstraat 28, Kampen, Netherlands.
RIL	Ross Institute, London, England.
RIMD	Research Institute for Microbial Diseases, Osaka University, Nishi-machi, Dôjima, Kita-ku *or* Yamadaue (Yamada-Kami), Suita City, Osaka, Japan.
RIO	Research Institute, Canada Agriculture, University Sub P.O., London, Guelph, Ontario, Canada.
RIR	Research Institute for Refrigeration, Bratislava, Czechoslovakia.
RIT	Recherche et Industrie Therapeutique, 13 rue du Tilleul, Genval, Belgium. *or* Rega Institute, University of Leuven, Minderbroedersstraat, 10, Leuven, Belgium.
RIVE	Research Institute for Viticulture and Enology, Matuškova ul. 97, Bratislava, Czechoslovakia.
RIVM	Research Institute of Veterinary Medicine, Brno, Czechoslovakia.
RJ	Institute of Research and Experimentation of Centro Sul (I.P.E.A.C.S.), km 47-Via Campo Grande-ZC-26, GB, Brazil, S.A.
RLL	Research Laboratories, Lepetit S.p.A., Milano, Italy. *Also* RLLM.
RLLM	*See* RLL.
RML	Rocky Mountain Laboratory, Hamilton, Mont. 59840 U.S.A.
Roussel	Roussel Research Center (U.C.L.A.F.), III route de Noisy, Romainville, Seine, France. *Also* UCLAF.
RP	Societé des Usines Chimiques, Rhône-Poulenc, 9 qual Jules Guesde, a Vitry s/Seine, Seine *or* 22 Avenue Montaigne, Paris 8, France. DS is used as an acronym for strain designations. *Also* Rhone-Poulenc and DS.
RRIC	Rubber Research Institute, Ceylon.
RRIM	Rubber Research Institute, Malaya.
RSA	Rancho Santa Ana Botanic Garden, Claremont, Calif. 91711 U.S.A.

RTCI	Research Laboratories, Takeda Chemical Industries, Ltd., 27 Dosho-machi, 2 Higashi-ku, Osaka, Japan.
RTM	Research and Training Institute, Mlingano, Private Bag, Ngomeni, Tonga, Tanzania.
SAN	Laboratory of Phytopathology, Institute of Plant Health, Paseo Colon 922, 2° Piso, Buenos Aires, Argentina, S.A.
SANK	*See* Sankyo.
Sankyo	Central Research Laboratories, Sankyo Company, 2-58, 1-chôme, Hiro-machi, Shinagawa-ku, Tokyo, Japan, *Also* SANK.
SAOE	Agronomy and Enology Station, Bordeaux, France.
SARC	Microbiology Section, Plant Protection Research Institute, Private Bag 134, Pretoria, Union of South Africa.
SBMP	Research Laboratory of Dairy Science, Snow Brand Milk Products Company, Ltd., Sapporo, Japan.
SC	Squibb Institute for Medical Research, New Brunswick, N.J. 08903 U.S.A. *Also* Squibb.
Schenley	Schenley Laboratories, Inc., Lawrenceburg, Ind. 47025 U.S.A.
SCIBP	Special Committee for the International Biological Program.
SEATO	SEATO Medical Research Laboratory, Bangkok, Thailand.
SEFF	Fruittree Culture Substation, Farraouphila, Brazil, S.A.
SEMIA	Section of Agricultural Microbiology, Secretary of Agriculture, Porto Alegre Rs, Brazil, S.A.
SES	Sericultural Experimental Station, Tokyo, Japan.
SFC	Federal Station for Testing Cultures, Lausanne, Switzerland.
SFEV	Federal Station for Viticultural and Arboricultural Testing, Lausanne, Switzerland.
SFPA	Phytopathological Service, Secretary of Agriculture, AV. Julio de Castillos 585, Porto Alegre, Rio Grande do Sul, Brazil, S.A.
SGC	General Water Society, Barcelona, Spain.
SHIO	*See* SRL.
Shionogi	*See* SRL.
SIES	Shimane Industrial Experimental Station, Matsue, Japan.
SIF	Statens Institutt for Folkchelse, Oslo, Norway.
SIFF	National Institute of Public Health, Oslo, Norway.
SIO	Scripps Institution of Oceanography, La Jolla, Calif. 92037 U.S.A.

SIR	Institute of Science and Industrial Research, Osaka, Japan.
SIRI	Sugar Industry Research Institute, Mauritius.
SIW	Smithsonian Institution, Washington, D.C. 20560 U.S.A.
SKS	Stuttgart-Korntaler Collection; Mycological-Bacteriological Arbeitsgemeinschaft, Staudtstrasse 19, Korntal b. Stuttgart, Germany.
SKU	Faculty of Science, Kyoto University, Kyoto, Japan.
Smith	*See* NRS.
SMKU	School of Medicine, Keio University, Tokyo, Japan.
SOE	Servicio Oleiocola, Encantado, Brazil, S.A.
SOU	Faculty of Science, Osaka University, Osaka, Japan.
SPL	Department of Bacteriology, State Laboratory for Soil and Crop Research, Lyngby, Denmark.
Squibb	*See* SC.
SRI	The Scientific Research Institute, Ltd., Sumiki Laboratory, Tokyo, Japan.
SRL	Shionogi Research Laboratory, 2147, Kami, Sagisu, Fukushima-ku *or* 2047 Sagisu-kamidori, Fukushima-ku, Osaka, Japan. *Also* Shionogi and SHIO.
SRMS	Station of Research and Soil Microbiology, 7 rue Sully-21-Dijon, France.
SRS	Sericultural Research Station, Ales, France.
SSES	Sericultural Experiment Station, Taitama Prefecture, Japan.
SSIC	State Serum Institute, Copenhagen, Denmark.
STMPR	School of Tropical Medicine, Puerto Rico.
STO	Sapporo Taxation Office, Hokkaido, Sapporo, Japan.
SU	Australian Inoculant Research and Control Service, Department of Agriculture, P.M.B. 10, Rydalmere, New South Wales 2116, Australia.
SVÚ	State Veterinary Laboratories, Czechoslovakia.
TA	Bacteriology Laboratory, Department of Agriculture, Launceston, Tasmania, Australia.
Takeda	Takeda Chemical Industries, Ltd., Juso-Nishinocho, Higashiyodagawa-ku, Osaka, Japan.
TAU	Tokyo Agricultural University, Tokyo, Japan.
TC	Department of Biological Sciences, Technological College, Prague, Czechoslovakia.
TCCJMI	Type Culture Collection, John McCormick Institute, Chicago, Ill. 60604 U.S.A. Forerunner of ATCC.
TCXA	Moscow Order of Lenin Agricultural Academy, Moscow, U.S.S.R. *See* TSKHA.
TDEL	Technical Development Establishment Laboratory, Kanpur, India.

TH	Technical High School, Delft, Netherlands.
THU	Department of Fermentation Technology, Hiroshima University, 3-chôme, Senda-cho, Hiroshima-city, Japan.
TI	Herbarium of the Department of Botany, Faculty of Science, University of Tokyo, Tokyo, Japan.
TIT	Laboratory of Biological Chemistry, Tokyo Institute of Technology, Tokyo, Japan.
TJM	Tokyo Jikeikai Medical School, Tokyo, Japan.
TKA	Tokai-Kinki National Agricultural Experiment Station, Tsu, Japan.
TKU	Faculty of Technology, Kyoto University, Kyoto, Japan.
TL	Treub Laboratory, Bogor, Indoneisa. *or* Treub Laboratory, Buitenzorg, Java.
TLM	Tokyo-to Laboratory for Medical Sciences, Tokyo, Japan.
TOT	Laboratory of Applied Microbiology, Faculty of Agriculture, Tottori University, Japan.
TPI	Tropical Products Institute, 56-62 Gray's Inn Road, London WC1, England.
TRIC	Tea Research Institute, Ceylon.
TRL	Timber Research Laboratory, Johannesburg, Union of South Africa.
TRTC	Department of Botany, University of Toronto, Toronto, Ontario, Canada.
TSCHA	Agricultural Academy im. Timiryazeva, Moscow, U.S.S.R.
TSES	Taiwan Sugar Experimental Station, Taiwan, China.
TSGNKI (ЦГНКИ)	Tarasevicha Central Government Scientific Institute, Sivtsev-Vrazhek, 41, Moscow, U.S.S.R.
TSKHA (ЦХА)	K.A. Timiryazeva, Moscow Order of Lenin Agricultural Academy A, 8, Novoe Shosse, Moscow, U.S.S.R.
TSM	National Science Museum, Tokyo, Japan.
TSMP (ЦМП)	V.V. Doku'eva, Central Museum of Soil Science B-164, Birzhevoy Proezd, 6, Leningrad, U.S.S.R.
TSNIIMOD (ЦНИИМОД)	Central Scientific-Research Institute of Mechanical Cultivation, Laboratory of Proving Grounds, Tests and Antiseptics, Solnechogorsk, obl., pl. Lesnaya, Moscow, U.S.S.R.
TSNIIMS (ЦНИИМС)	Central Scientific-Research Institute of the Butter and Cheese Industry, g. Uglich, Yaroslavskoi obl., Krasnoarmeiskii Bul., 19, U.S.S.R.
TSNIISK (ЦНИИСК)	V.A. Kucherenko, Central Scientific-Research Institute of Building Construction Z-389, 2-ya Institutskaya ul., 6, Moscow, U.S.S.R.
TUAT	Faculty of Agriculture, Tokyo University of Agriculture & Technology, Tokyo, Japan.

TUF	Bacterial Laboratory, Tokyo University of Fisheries, Tokyo, Japan.
U	Department of Microbiology, Agricultural College, Ultuna S-75007, Uppsala 7, Sweden.
UA	Agricultural Chemistry of Soils, University of Arizona, Tucson, Ariz. 86721 U.S.A.
UAB	University of Aston in Birmingham, Birmingham, England.
UAMH	Mold Herbarium and Culture Collection, University of Alberta, Edmonton, Alberta, Canada.
UC	Department of Bacteriology, University of California, Davis, Calif. 95616 U.S.A. *or* Institute of Plant Pathology, Universita Cattolica del S. Cuore, Piacenza, Italy. *or* University of Colorado, Denver Center, Denver, Colo. 80202 U.S.A. *or* Culture Collection, The Upjohn Company, Kalamazoo, Mich. 49001 U.S.A. *Also* Upjohn.
UCCA	Division of Bacteriology, Agricultural Experiment Station, College of Agriculture, University of California, Davis, Calif. 95616 U.S.A.
UCH	School of Medicine, University of Chicago, Chicago, Ill. 60637 U.S.A. *or* Department of Bacteriology, University College Hospital Medical School, University Street, Gower Street, London, England.
UCLAF	*See* Roussel.
UCST	Department of Microbiology, Institute of Medical-Biological Sciences, University of Concepción, Casilla 272, Concepción, Chile, S.A.
UCW	Department of Agricultural Botany, University College of Wales, Penglais, Aberystwyth, Wales.
UD	Culture Collection of Hydrocarbon Utilizers and Suspect Utilizers, Department of Biology, University of Dayton, Dayton, Ohio 45409 U.S.A. *or* Department of Food Science and Technology, University of California, Davis, Calif. 95616 U.S.A.
ÚEM	*See* IEM.
UEM	*See* IEM.
UEMP	Regulations Epidemiology and Microbiology, Prague, Czechoslovakia.
UFC	United Fruit Company, Norwood, Mass. 02062 U.S.A.
UGS	University of Geneva, Ginsbra, Switzerland.
UHJP	Hebrew University, Jerusalem, Palestine.

UI	University of Indiana, Bloomington, Ind. 47401 U.S.A.
UIFI (ЧИФИ)	The Ukranian Research Institute of Food Industry, Kharkov, Ukr.S.S.R.
UJEP	University of J.E. Purkyne, Brno, Czechoslovakia.
UkrIM (ЧкрИМ)	Institute of Microbiology, Academy of Science, Bol'shaya Zhitomirskaya 28, Kiev, Ukr.S.S.R.
UkrNIIPP (ЧкрНИИПП)	Ukranian Scientific-Research Institute, Pishchevoy Promyshlennosti, Sumskaya, 3, Kharkov, Ukr.-S.S.R.
UMCK	University of Microbial Cultures, Kumasi, Department of Biological Sciences, University of Science and Technology, Kumasi, Ghana.
U.Md.	University of Maryland, College Park, Md. 20740 U.S.A.
UNC	Chair of Agrarian and Industrial Microbiology, Faculty of Agrarian Science, National University of Cuyo, Mendozo, Argentina, S.A.
UNDP	United Nations Development Program.
UNEP	United Nations Environmental Program.
UNESCO	United Nations Education, Scientific and Cultural Organization.
UNIDO	United Nations Industrial Development Organization.
UNT	Institute of Microbiology, National University of Tucumán, Ayacucho 482, San Miguel de Tucumán, Argentina, S.A.
UO	University of Oglethorpe, Atlanta, Ga. U.S.A.
Upjohn	*See* UC.
USAMSGS	U.S. Army Medical Services Graduate School, Washington, D.C. 20012 U.S.A.
USDA	United States Department of Agriculture, Washington, D.C. 20250 U.S.A. *or* Former Plant Industry Station, now part of Agricultural Research Center United States Department of Agriculture, Beltsville, Md. 20705 U.S.A.
USDI	United States Department of the Interior, Washington, D.C. 20242 U.S.A.
USFCC	United States Federation of Culture Collections.
USMH	University of Sheffield Mycological Herbarium, Sheffield, England.
USPH	United States Public Health Service.
USSB	Department of Microbiology, University of Agricultural Sciences, Bangalore-24, India.
USSR, ARI (ЧССР, АРИ)	*See* ARI.
USSR IPP (ЧССР ИПП)	The U.S.S.R. Research Institute for Plant Protection, Leningrad, U.S.S.R. *See also* VIZR.

USSR RIA (ЧССР РИА)	*See* RIA
UWA	Department of Soil Science and Plant Nutrition, Institute of Agriculture, University of Western Australia, Nedlands, Western Australia 6009, Australia.
UWCA	College of Agriculture, University of Wisconsin, Madison, Wis. 53706 U.S.A.
UWO	University of Western Ontario Culture Collection, Botany Department, University of Western Ontario, London, Ontario, Canada.
VFB	Veterinary Faculty, University of Agriculture, Brno, Czechoslovakia.
VIZR (ВИЗР)	All-Union Institute for Plant Protection, ul. Gertsena, 42, Leningrad, U.S.S.R. *See also* USSR IPP.
VKF	Veterinary Faculty, University of Agriculture, Košice, Czechoslovakia.
VKM (ВКМ)	All-Union Collection of Microorganisms, Moscow, U.S.S.R.
VNIIA (ВНИИА)	*See* RIA.
VNIFF (ВНИФФ)	All-Union Scientific-Research Institute of Phytopathology, st. Golitsino, Moscow, U.S.S.R.
VNIIM VASCHNIL (ВНИИМ ВАСЧНИЛ)	All-Union Scientific Research Institute s.ch. Microbiology, VASCHNIL, Moscow, U.S.S.R.
VNIIs/khM (ВНИИс/хМ)	All-Union Scientific-Research Institute of Agricultural Microbiology, ul. Gertsena, 42, Leningrad, U.S.S.R. *Also* VNIIs/khM-L.
VNIIs/khM-L (ВНИИс/хМ-L)	*See* VNIIs/khM.
VNIIs/khM-M (ВНИИс/хМ-М)	All-Union Scientific-Research Institute of Agricultural Microbiology, Konyushkovskaya, d.31, Moskovskoe Otdelenie, Moscow, U.S.S.R.
VNIISP (ВНИИСП)	All-Union Scientific-Research Institute of the Alcohol and Liquer Industry, Samokatkaya ul., 46, Moscow, U.S.S.R.
VNIMI (ВНИМИ)	All-Union Scientific-Research Institute of the Dairy Industry, Lyucinovskaya, 35, Moscow, U.S.S.R.
VNIVI (ВНИВИ)	All-Union Scientific-Research of Vitamins Institute, Novokuznetskaya, d. 7, Moscow, U.S.S.R.
VRI	Veterinary Research Institute, Brno, Czechoslovakia.
VSCHT	Faculty of Chemistry, Technical University, Prague, Czechoslovakia.
VUHEM	Army Research Institute for Hygiene, Epidemiology and Microbiology, Prague, Czechoslovakia.
VUKP	Research Institute for Distillery and Canning Industry, Prague, Czechoslovakia.

VUPT	Research Institute for Food Technology, Prague, Czechoslovakia.
WACRI	Cocoa Research Institute of Ghana. (Formerly West African Cocoa Research Institute.)
WADC	Wright Air Development Center, Dayton, Ohio 45433 U.S.A.
WAIFOR	West African Institute for Oil Palm Research.
WB	Department of Bacteriology, College of Agriculture, University of Wisconsin, Madison, Wis. 53706 U.S.A.
Wellcome	*See* WRL.
WES	Woburn Experimental Station, Bletchley, Bucks, England.
WHO	World Health Organization, Avenue Appia, 1211, Geneva, Switzerland.
WIPO	World Intellectual Property Organizati0n.
WLRI	Warner Lambert Research Institute, Morris Plains, N.J. 07950 U.S.A.
WMS-DB	Department of Bacteriology, Westminster Medical School, London, England.
WRAIR	Walter Reed Army Institute of Research, Washington, D.C. 20012 U.S.A.
WRL	Burroughs Wellcome Research Laboratories, Beckenham, Langley Court, Kent, England. *Also* Wellcome.
WRRL	Western Regional Research Laboratory, Agricultural Research Service, U.S. Department of Agriculture, Berkeley, Calif. 94710 U.S.A. Formerly referred to as Western Marketing and Nutrition Research Division *or* Western Utilization Research and Development Division.
Wyeth	Wyeth Laboratories, Inc., 611 East Nield Street, West Chester, Pa. 19380 U.S.A.
YCC	Yeast Culture Collection, Department of Food Technology, University of California, Davis Calif. 95616 U.S.A.
YFI	Yamanishi Fermentation Institute, Yamanaishi University, Kofu, Japan. *See* RIFY.
YMC	Yamaguchi Medical College, Abe, Japan.
YP	Tokyo Institute, Yamanouchi Pharmaceutical Company, Ltd., Tokyo, Japan.
YPMC	Microbial Institute, Yamaguchi Prefectural College of Medicine, Tokuyama, Japan.
YU	Yale University, New Haven, Conn. 06520 U.S.A.
YUK	Faculty of Engineering, Yamanashi University, Kofu, Japan.
ZIL (ЗИЛ)	Zoological Institute, Academy of Science, Universitetskaya nab., 1, Leningrad V-164, U.S.S.R.